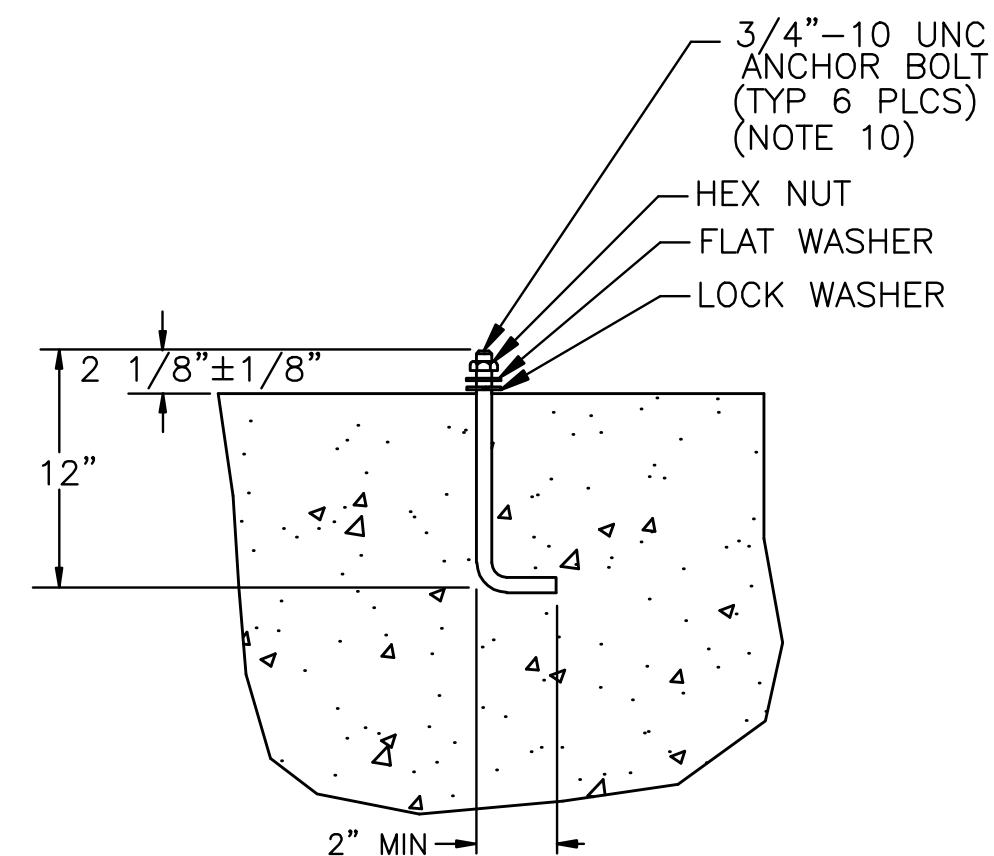
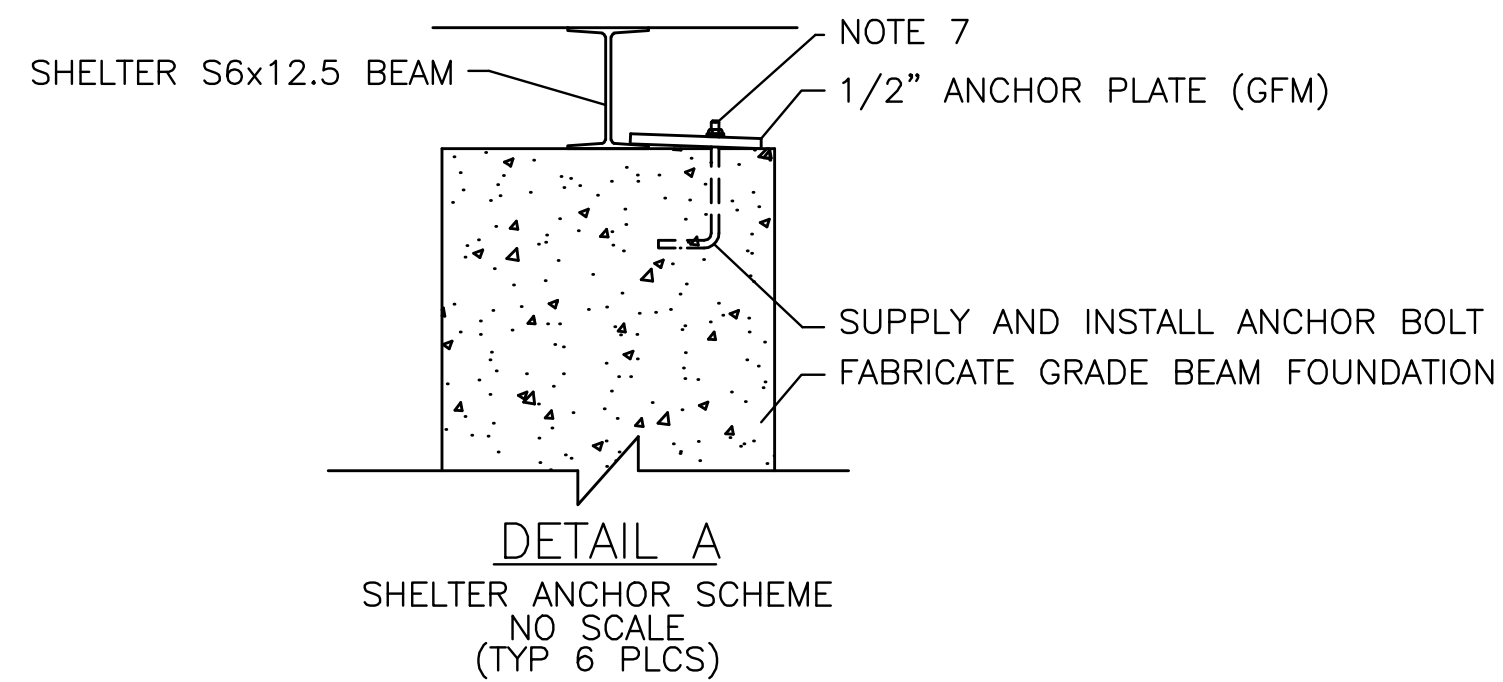
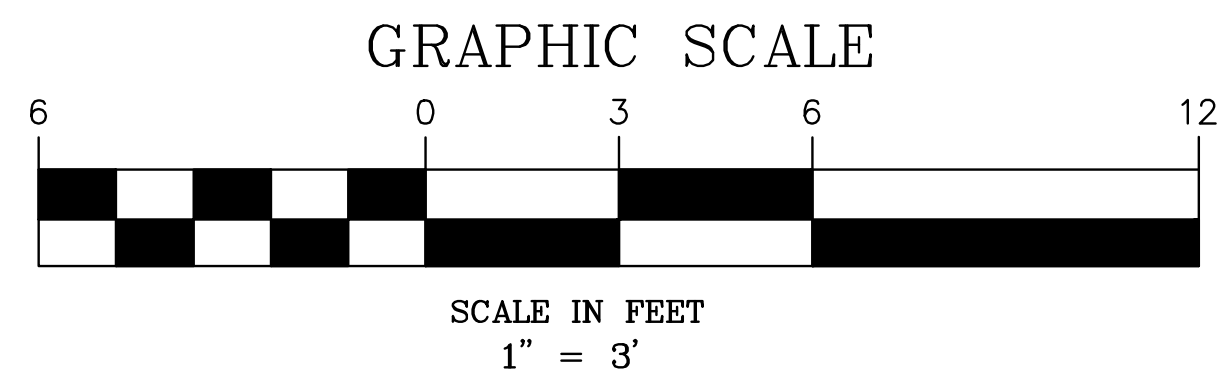
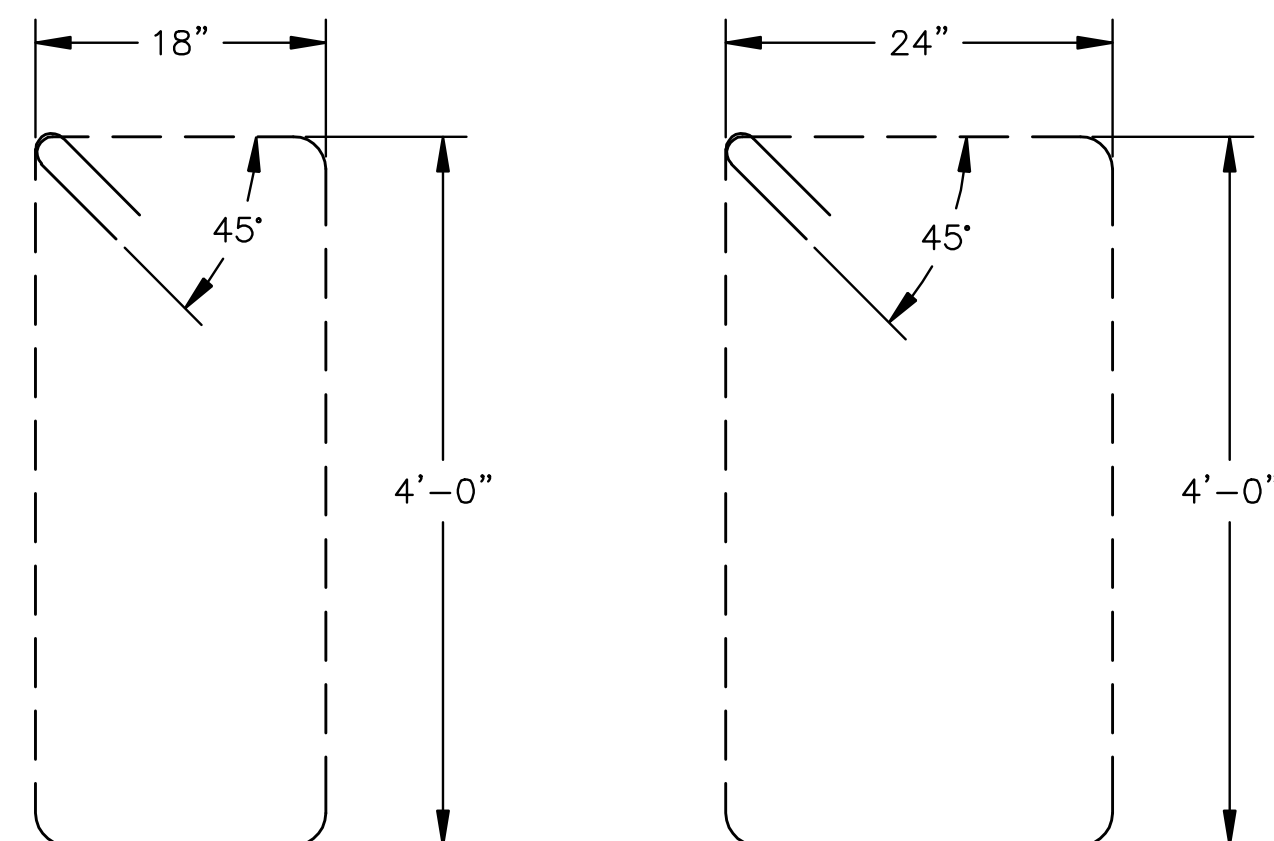


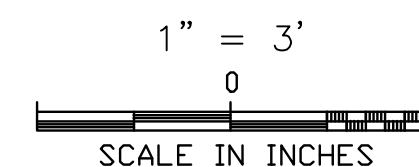
SECTION D  
ENTRANCE STOOP  
SCALE: 1" = 3'-0"



DETAIL B  
SHELTER ANCHOR BOLT  
NO SCALE  
(NOTE 7)



DETAIL C  
REBAR LOOP  
SCALE: 1" = 12"



## INSTALLATION NOTES

1. CONCRETE SHALL DEVELOP 3000 PSI IN 28 DAYS WITH A MAXIMUM SLUMP OF 4". MAXIMUM AGGREGATE SIZE SHALL BE 3/4".
  2. FOUNDATION DEPTH SHOWN IS MINIMUM AND MAY VARY DUE TO LOCAL SOIL CONDITIONS OR FROST DEPTH (MINIMUM 1' BELOW FROST).
  3. UPON COMPLETION OF ALL EARTHWORK, SUPPLY AND INSTALL 20 TONS OF CLASS 2 ROAD BASE SURFACING AROUND THE FOUNDATION AND AREAS OF DISTURBANCE, TO MATCH EXISTING PLOT PLAN.
  4. IF FILL OR GRADING IS REQUIRED IT SHALL BE CLASS 2 ROAD BASE AND BUILT UP IN LAYERS NOT EXCEEDING 6". EACH LAYER SHALL BE THOROUGHLY TAMPED AND COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM WATER CONTENT. GRADING OF SOIL AND ROCK SHOULD BE SUCH THAT ALL DRAINAGE IS AWAY FROM FOUNDATIONS.
  5. NOT USED.
  6. CONCRETE FOUNDATION BASED ON 3000 PSF VERTICAL SOIL BEARING PRESSURE AND 200 PSF LATERAL SOIL BEARING PRESSURE PER FT. BELOW SURFACE.
  7. ANCHOR BOLTS, NUTS AND WASHERS SHALL BE HOT DIP GALV. STEEL PER ASTM-A153 AND ASTM-A325.
  8. GRADE BEAM FOUNDATION ELEVATIONS SHALL BE HORIZONTALLY LEVEL WITH EACH OTHER  $\pm 1/4"$ . INDIVIDUAL GRADE BEAM SURFACES MUST BE LEVEL  $\pm 1/8"$ .
  9. THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER FOR THE USE OF THE CRANE TO LIFT THE SHELTERS.
- SHELTER LIFTING DATA:
- SIZE-10' X 16' X 9.5' TALL  
WEIGHT-8800 LBS. APPROXIMATE  
METHOD-LIFTING RINGS ARE PROVIDED IN THE SHELTER SUPPORT "I" BEAMS. ALLOWING CRANE LOADING AND UNLOADING SPREADER BARS ARE REQUIRED BETWEEN CABLES.
10. ANCHOR BOLTS MAY BE REPLACED WITH EPOXY ANCHORED THREADED ROD AT THE SUBCONTRACTOR'S DISCRETION AND COST. EPOXY SHALL BE "ITW RAMSET RED HEAD ACRYLIC 7" OR EQUIVALENT WITH A MINIMUM TENSION SHEAR OF 4500 PSI [316 kg/cm<sup>2</sup>] WHEN SET. THREADED ROD SHALL BE 3/4"-10 UNC. STAINLESS STEEL. INSTALL ROD PER MANUFACTURER'S RECOMMENDATION LEAVING 2 1/8" ABOVE THE CONCRETE.
  11. THE CONTRACTOR SHALL SUPPLY AND INSTALL ENTRANCE STOOP SAFETY RAILS ON EACH SIDE OF THE STEPS AND STOOP. THE TOP RAIL SHALL BE 42" HIGH THE MID RAIL SHALL BE 21" HIGH. THE RAIL SHALL BE CONSTRUCTED USING 2" OD GALVANIZED PIPE. USE "KEE KLAMP" COMPONENTS, OR APPROVED EQUAL, TO ASSEMBLE THE RAILS AND TO ATTACH THEM TO THE CONCRETE.

REVISION	DATE	DESCRIPTION	CHECKED	APPROVED
DEPARTMENT OF TRANSPORTATION				
FEDERAL AVIATION ADMINISTRATION				
WESTERN PACIFIC REGION			LOS ANGELES, CALIF.	
OAKLAND, CALIFORNIA RWY 29 LOCALIZER REPLACE ELECTRONIC EQUIPMENT SHELTER FOUNDATION DETAILS				
REVIEWED BY	SUBMITTED BY		APPROVED BY	
	Michael Brundage		Cliff Rustad	
	SENIOR OPERATIONS ENGINEER		MGR, INFRASTRUCTURE SUPPORT – LA	
	DESIGNED BY	DATE	DRAWING NO.	
	DRAWN BY	04/23/09	OAK-D-ILS29-S002	
	BRUNDAGE/ACAD2009			
	CHECKED BY			